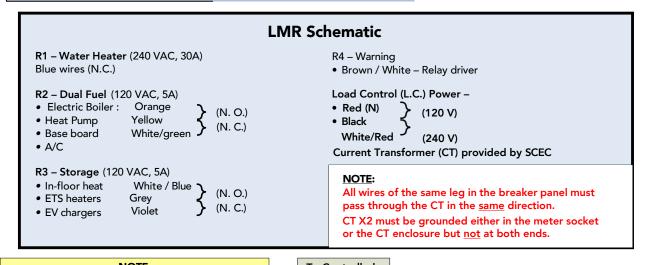
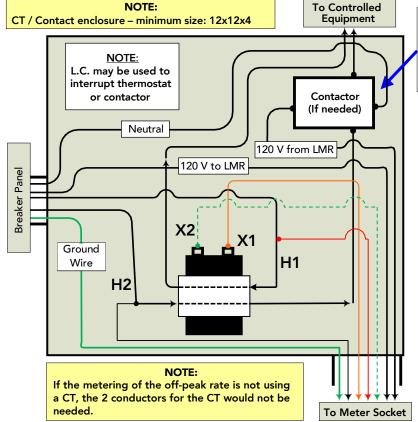
St. Croix Electric Cooperative

Wiring Diagram for Current Transformer (CT) submetering of Off-peak Electric

Contact Information:

If you have any questions or other off-peak metering options, please call Member Services at 715-796-7000





NOTE:

- No Contactor is needed for the Water Heater (use 30A relay in L.C.)
- Use contactors with 120 V Coils, normally open contacts

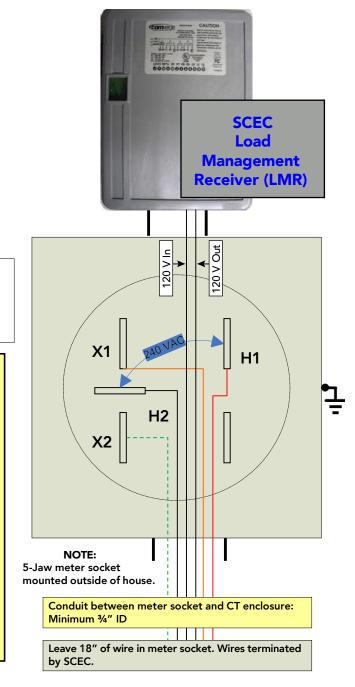
Wire sizes & colors pulled/ran by **Electrician from Members panel**

- 2 Blue #10 THHN (Water Heater)
- 2 Yellow #12 THHN (Dual Fuel: Electric heat / A/C)
- 2 Purple #12 THHN (Storage Heat / EV Charger)
- 2 Brown #14 THHN (Alert) [If needed]
- 1 Black (H2) (240 V) #12 THHN 1 - Red (H1)
- 1 Orange (X1)
- 1 Green (X2) **#12 THHN**

(NOTE: Check CT burden table to verify wire size)

1 - Green #12 THHN to ground

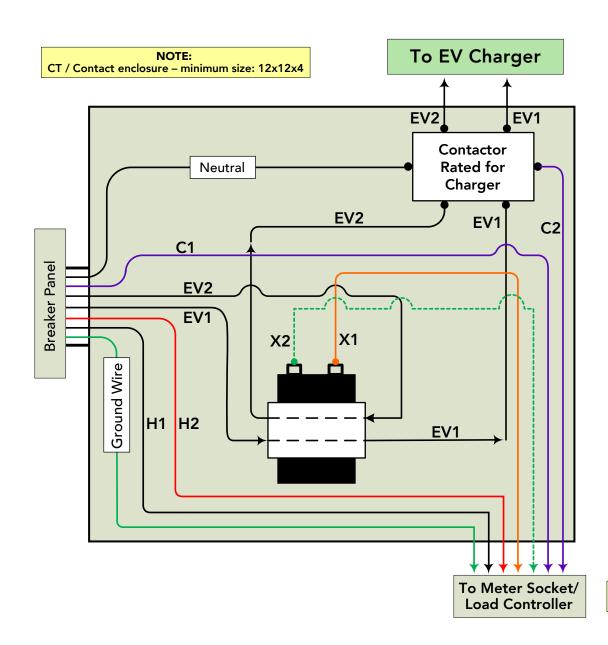
meter socket



St. Croix Electric Cooperative

Wiring Diagram for Current Transformer (CT) submetering of Off-peak Electric for EV Charger

Contact Information: If you have any questions or other off-peak metering options, please call Member Services at 715-796-7000



Wire sizes & colors pulled/ran by **Electrician from Members panel**

2 - EV1 Charger Branch Circuit **EV2 Charger Branch Circuit**

2 - Purple #12 THHN

C1: 120 volt coil power to load controller C2: 120 volt coil power to coil from load controller

1 – Orange (X1) #12 THHN Current

1 - Green (X2) #12 THHN transformer wire

1 - Green #12 THHN - ground from breaker panel to meter socket

Leave 18" wire in meter socket. Wires terminated by SCEC.



Off-peak (subtractive) Meter Socket



Current transformer – supplied by SCEC



Example of off-peak installation

NOTES:

Meter socket needed = Mill bank MLB U748-RL or equivalent 1" Meter Hub = Millbank MLB A7514 or equivalent

1" to 34" reducing hub

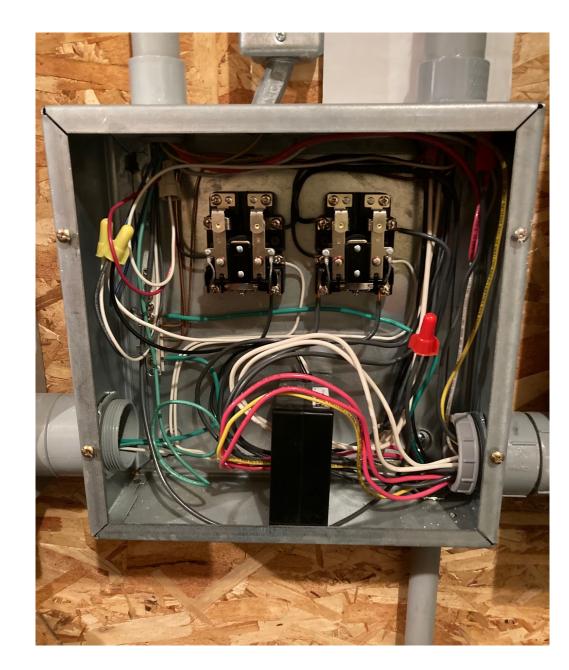
5th terminal = MLB5TK2 or equivalent

Off-peak Meter Socket package available for purchase. See price list for current price.

Current transformer provided by SCEC and can be picked up at SCEC headquarters.

Contact Information:

If you have questions, please call Member Services at 715-796-7000.



12" x 12" Off-Peak Junction Box

Contact Information:

If you have questions, please call Member Services at 715-796-796-7000